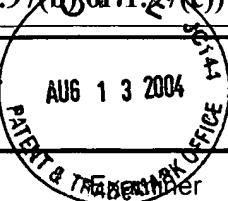


TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) (1) or H.27(c))

Docket No.
EMI.1003

In Re Application Of: **CORCORAN, et al**



Application No.	Filing Date	Customer No.	Group Art Unit	Confirmation No.	
10/668,910	September 23, 2003	Jones, Judson	26,812	2834	2532

Title:

MOTOR ASSEMBLY ALLOWING OUTPUT IN MULTIPLE DEGREES OF FREEDOM

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

- The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

- The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

the statement specified in 37 CFR 1.97(e);

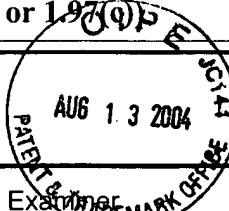
OR

the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(q))

Docket No.
EMI.1003

In Re Application: CORCORAN, et al.



Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/668,910	September 23, 2003	Jones, Judson	26,812	2834	2532

MOTOR ASSEMBLY ALLOWING OUTPUT IN MULTIPLE DEGREES OF FREEDOM

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- A check in the amount of **\$180.00** is attached.
- The Director is hereby authorized to charge and credit Deposit Account as described below.
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 - Credit any overpayment.
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Signature of Person Mailing Correspondence

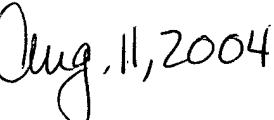


Ellen M. SALEY

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

Signature

Dated: 
Aug. 11, 2004

CC:

INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>				ATTY DOCKET NO. EMI.1003	SERIAL NO. 10/668,910		
				APPLICANT(S) CORCORAN, et al			
				FILING DATE 9-23-03		GROUP 2834	
				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4,080,724	3-28-78	Gillette	29	598		
	4,161,726	7-17-79	Burson, et al.	340	365R		
	4,352,646	10-5-82	Laing, et al.	417	420		
	4,477,043	10-16-84	Repperger	244	223		
	4,533,827	8-6-85	Fincher	250	214 PR		
	4,560,983	12-24-85	Williams	340	825		
	4,590,339	5-20-86	Scott-Jackson, et al.	200	6 A		
	4,607,197	8-19-86	Conrad	318	115		
	4,632,341	12-30-86	Repperger, et al.	244	230		
	4,642,595	2-10-87	Ruumpol	336	135		
	4,375,631	3-1-83	Goldberg	338	128		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
	JP362221856A	9-29-87	Japan	H02K033	16		
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
		"Development of a Variable-Reluctance Spherical Motor" by Kok-Meng Lee and Xiao-an Wang, Proceedings of the 18th NSF Grantees Conference of Design and Manufacturing System Research, Atlanta, Georgia, Jan. 8-12, 1992					
		"Automated Adaptive Control of Display Characteristics Within Future Air Force Crew Stations" Haas, et al. Proc. of Amer. Control Conference 1998, Vol. 1 Air Force Res. Lab., Wright Patterson AFB, OH, USA; pages 450-452 Month Unknown					
EXAMINER			DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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APPLICANT(S) CORCORAN, et al	
FILING DATE 9-23-03	GROUP 2834

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,719,381	1-12-98	Miles	310	166	
	4,739,241	4-19-88	Vachtsevanos, et al.	318	800	
	4,745,367	5-17-88	Dustmann, et al.	328	235	
	4,763,034	8/88	Gamble	310	181	
	4,842,607	6-27-89	Repperger, et al.	623	24	
	4,855,704	8-8-89	Betz	336	132	
	4,980,558	3-13-90	Lordo et al.	318	648	
	4,945,367	7-31-90	Blackshear	396	427	
	5,044,956	9-3-91	Behensky, et al.	434	45	
	5,062,594	11-5-91	Repperger	244	175	
	5,107,080	4-21-92	Rosen	200	6 A	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Biodynamic and Spasticity Reduction in Joystick Control via Force Reflection" Repperger Sept. 1995; AD-A313 739, AL/CR-TR-1995-0152 Armstrong Laboratory, Air Force Material Command, Wright Patterson AFB, OH; Pages 1-23
		"Why the Pentagon is Often Slow to Pursue Promising New Weapons", Ricks Wall Street Journal; October 12, 1999, Pages 1-9

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U.S. PATENT DOCUMENTS

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	5,111,288	5-5-92	Blackshear	348	143	
.	5,196,745	3-23-93	Trumper	310	12	
	5,319,577	6-7-94	Lee	702	153	
	5,328,166	7-12-97	Hokamura	271	171	
	5,349,881	9-27-94	Olorenshaw et al.	74	471 XY	
	5,382,860	1-17-95	Fanning et al.	310	216	
.	5,402,049	3-28-95	Lee, et al.	318	568.1	
.	5,410,232	4-25-95	Lee	318	568.11	
.	5,416,392	5-16-95	Lee et al.	318	568.1	
	5,421,694	6-6-95	Baker et al	414	694	
	5,491,462	2-13-96	Cecchi et al.	338	128	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		"Urban Warfare: Where Innovation Hasn't Helped", Ricks - <i>Wall Street Journal</i> ; 10-12-99, Pages 1-3
		"A Test of Fitts' Law in Two Dimensions with Head and Head Movement", R. Jagacinski, et al. AD-A133 347, AFAMRL-TR-83/054, Wright Patterson AFB, OH, July 1983; Pages 1-23

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			APPLICANT(S) CORCORAN, et al	
FILING DATE 9-23-03			GROUP 2834	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,503,040	4-2-96	Wright	74	471 XY	
.		5,589,854	12-31-96	Tsai	345	161	
		5,619,195	4-8-97	Allen et al.	341	20	
		5,643,087	7-1-97	Marcus et al.	463	38	
		5,689,670	11-18-97	Luk	712	207	
		5,691,898	11-25-97	Rosenberg et al.	700	85	
.		5,703,604	12-30-97	McCutchen	345	8	
.		5,709,219	1-20-98	Chen et al.	600	595	
		5,719,451	2-17-98	Cook et al.	310	12	
		5,721,566	2-24-98	Rosenberg, et al.	345	161	
		5,731,804	3-24-98	Rosenberg	345	156	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		"Effects of Different Control Mechanism Upon Use of a Training Device", Schlechter. AD-A212 979, US Army, Fort Knox, KY, July 1989; Pages 1-18
		"Sims Aims High", Electronic Design, Penton Media, Hasbrouck Heights, NJ, Aug. 23, 1999; Page 32 B

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EMI.1003

SERIAL NO.
10/668,910

APPLICANT(S)
CORCORAN, et al

FILING DATE
9-23-03

GROUP
2834

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,734,373	3-31-98	Rosenberg et al.	345	161	
.	5,739,811	4-14-98	Rosenberg et al.	345	161	
	5,767,839	6-16-98	Rosenberg	345	161	
	5,773,773	6-30-98	McCauley et al.	200	6 A	
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	5,825,308	10-20-98	Rosenberg	341	20	
.	5,831,554	11-30-98	Hedayat et al.	341	20	
	5,831,596	11-3-98	Marshal et al.	345	161	
	5,903,456	5-11-99	Schena et al	364	190	
	5,929,607	7-27-99	Rosenberg et al	320	166	
	5,929,846	7-27-99	Rosenberg et al	345	161	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

"A study of Adaptive Stick Controller in Human Interface Systems" Repperger, et al. Proc. of Amer. Control Conference 1998; Vol. 1, Air Force Res. Lab, Wright Patterson AFB, OH, Pages 453-455. Month unknown.

EXAMINER

DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) EMI.1003		Application Number 10/688,910	
				Applicant(s) CORCORAN et al.			
				Filing Date 9-23-03	Group Art Unit 2834		
U.S. PATENT DOCUMENTS							
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		5,942,832	8-27-99	Oudet	310	254	
		5,969,520	10-19-99	Schottler	324	207.2	
		6,004,134	12-21-99	Marcus et al.	434	45	
		6,153,951	11-28-2000	Morita et al.	310	12	
		6,259,174	7-10-2001	Ono	310	13	
FOREIGN PATENT DOCUMENTS							
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OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
EXAMINER				DATE CONSIDERED			

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